

**NOTES**

A variety of detection technologies were used to produce the underground information recorded for this non-invasive survey. Variations in ground conditions, depth and density of services and signal interference from surrounding features can affect the accuracy of the technologies, therefore 100% detection and accuracy cannot be guaranteed.

All utility/service depths are in metres and are taken to the top of utility/service unless otherwise stated.

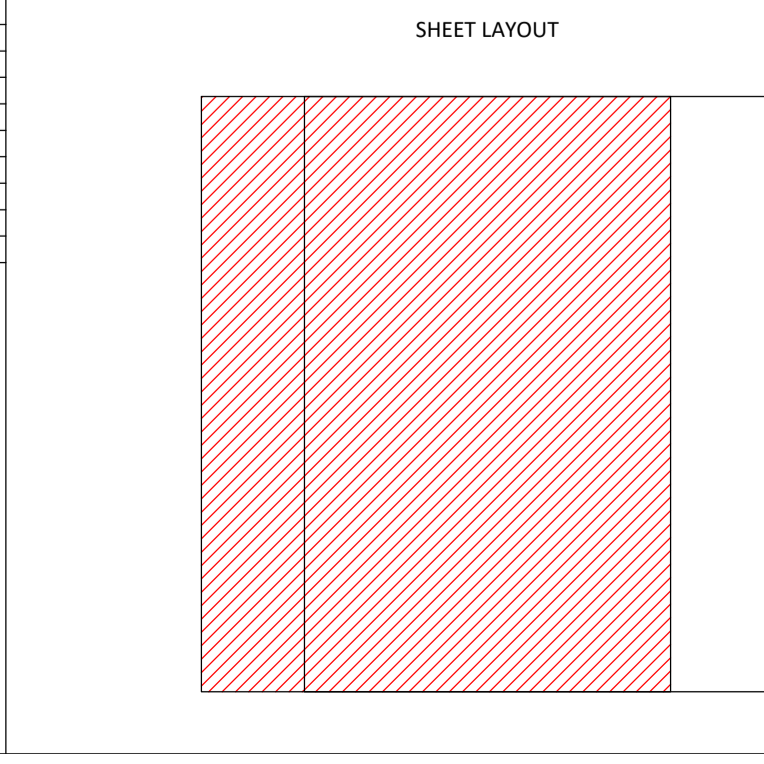
All pipe/duct sizes are in millimetres unless otherwise stated.

Underground services shown in this drawing are illustrated by a single service line. The single service line may actually represent multiple cables and/or ducts.

An anomalous feature is an unidentified subsurface area evident within the radar data that differs in response to its surrounding area. Examples of anomalous features include voiding, heavily saturated ground, buried tanks and demolished building foundations.

Topographical survey control is to OSGB36(15) datum by GPS (as recorded at the time of acquisition) and the project rotated to North, all subsequent data acquired does not have a scale factor applied and therefore is based on a flat earth scenario. Real Time Kinematic accuracies: Horizontal 10mm + 1ppm, Vertical 20mm + 1ppm. Real time accuracies: Horizontal 10mm + 1ppm, Vertical 20mm + 1ppm. Real time accuracies: Horizontal 10mm + 1ppm, Vertical 20mm + 1ppm.

Availability of Statutory Records		
Utility/Service Type	Record Provided	Record Owner
BT	Yes	Overseas
Electricity	Yes	National Grid
Gas	Yes	Cadent
Oil/Fuel	Yes	Anglian Water
Water	Yes	Anglian Water
Telcom	Yes	Anglian Water
Other	Yes	Cableforce



**ABBREVIATIONS**

AV	Air Valve	IBS	Illuminated Road Sign
BB	Bellows Beacon	IP	Lamp Post
BDD	Bottom of Chamber Depth	MS	Manhole
BM	Benchmark	M&M	Monitoring Well
BS	Bench Mark	MS	Manhole
BS	Bus Stop	PS	Post Box
BT	British Telecom Cover	PC	Police Station
CAB	Cabinet	RE	Rodding Eye
CCTV	Cable Television Cover	RS	Road Sign
CC	Closed Circuit TV	RS	Road Sign
CL	Cover Level	S&D	Site Level Depth
CP	Concrete Paving Slabs	SP	Sign Post
DK	Double Iron	ST	Street
DN	Down Pipe	STN	Subway Station
EP	Electricity Pole	SV	Surface Valve
EJB	Electricity Junction Box	SW	Surface Water
EP	Electricity Pole	TCB	Top of Chamber Depth
ER	Earth Road	TL	Traffic Light
FL	Flower Bed	TLCB	Traffic Light Control Box
FW	Foot Water	UL	Unable to Lift
FWP	Foot Water Pipe	VC	Vertical Curve
GA	Gas Meter	VP	Vent Pipe
GP	Gas Pipe	WD	Water Stop Depth
GV	Gas Valve	WM	Water Meter
IC	Inspection Chamber	WSC	Water Stop Check
ID	Invert Depth	WV	Water Stop Valve
		WVO	Water Stop Valve

**LINE-TYPE KEY**

1	Electricity
2	Street Lighting
3	Water
4	Gas
5	British Telecom
6	Unknown Telecom
7	Virgin Media
8	Front Gate
9	Traffic Control Signalling
10	CCTV
11	Empty Duct
12	Earth
13	Surface Water
14	Foul Water
15	Combined Sewer
16	Unknown Pipe
17	Unknown Cable
18	Metallic Target
19	Radar Target
20	Possible Target
21	Assumed
22	Statutory Records

Scan Area
Unable to GPR Area
Kind
Fence
Wall
Building
Surface Scar
Change of Surface
Building
Extents of Chamber
GPR Detected Anomalous Area
GPR Detected Reinforcing
Area of Obstruction
Electrical Interference

**CLIENT:**

**SITE:**

**PROJECT REF:**

**DRAWN:**

**CHECKED:**

**SCALE:**

**DATE:**

**SHEET NO:**

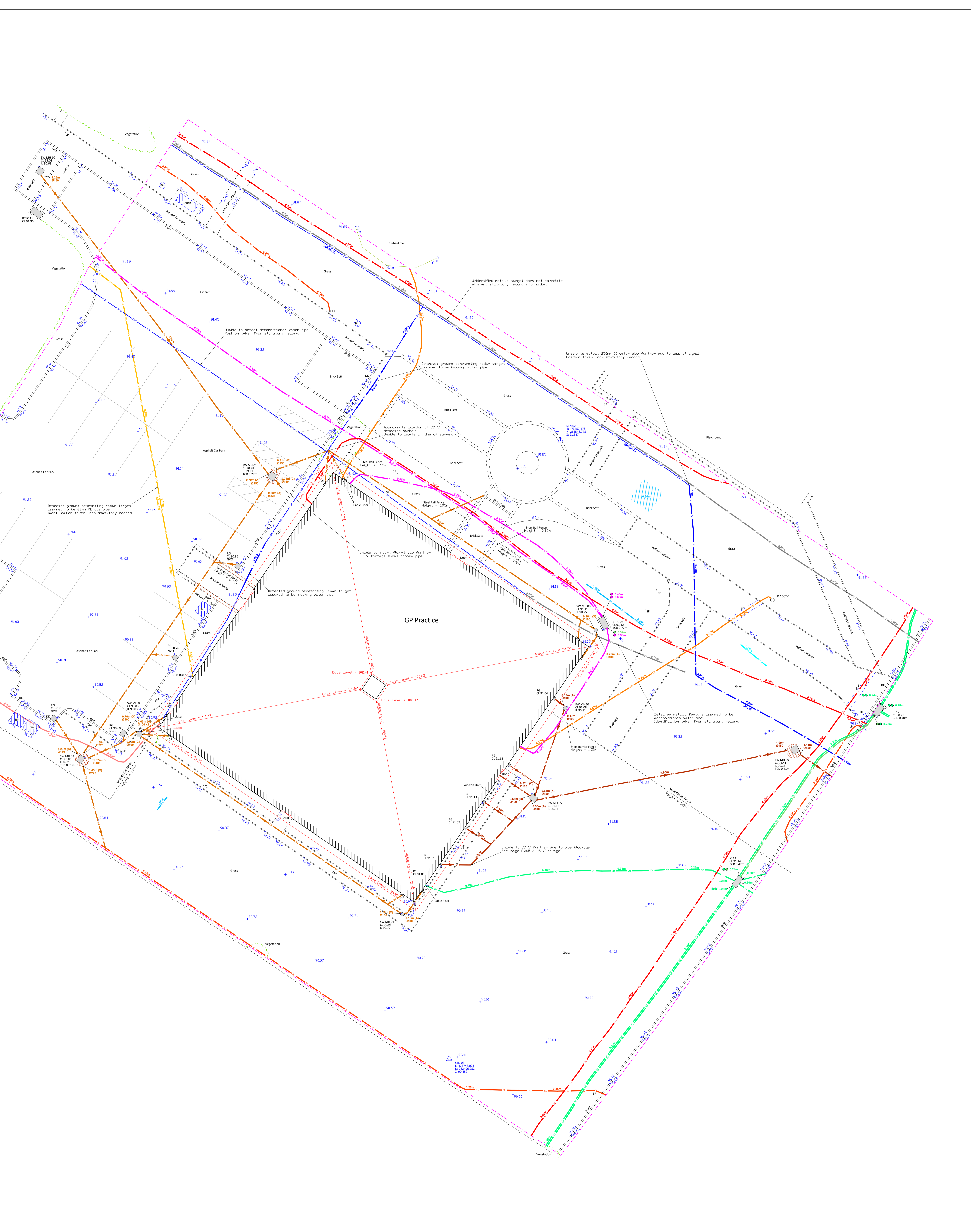
**REV:**

**PULSE mapping**

PULSE MAPPING LTD  
THE BOTHY, ALBURY PARK  
GUILDFORD, SURREY, GU5 9BH

T: 01483 527 972  
E: pulse@pulse-mapping.com  
W: www.pulse-mapping.com

Metres 1:100



**NOTES**

A variety of detection technologies were used to produce the underground information recorded for this non-invasive survey. Variations in ground conditions, depth and density of services and signal interference from surrounding features can affect the accuracy of these technologies, therefore 100% detection and accuracy cannot be guaranteed.

All utility/service depths are in metres and are taken to the top of utility/service unless otherwise stated.

All pipe/duct sizes are in millimetres unless otherwise stated.

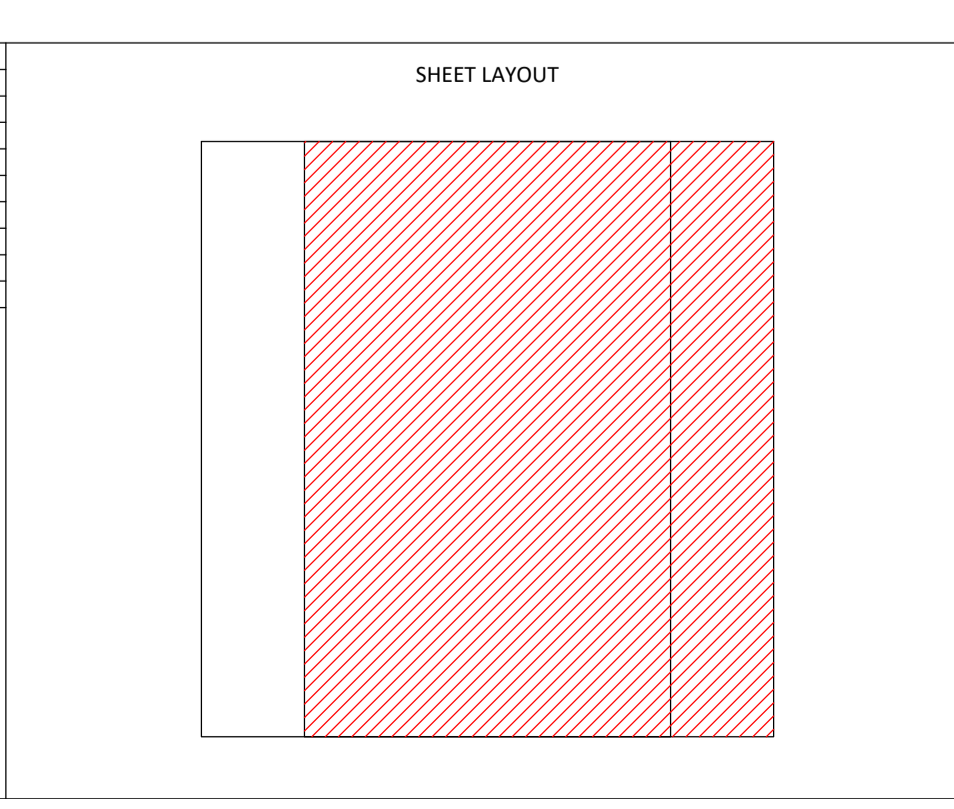
All dimensions measured by tape at manholes and inspection covers are determined from ground level due to non-entry of chambers. Therefore these should be treated as indicative only.

Underground services shown in this drawing are illustrated by a single service line. The single service line may actually represent multiple cables and/or ducts.

An anomalous feature is an unidentified subsurface area evident within the radar data that differs in response to its surrounding area. Examples of anomalous features include voiding, heavily saturated ground, buried tanks and demolished building foundations.

Topographical survey control is to OSGB36(15) datum by GPS (as recorded at the time of acquisition) and the project rotated to North. All subsequent data acquired does not have a coordinate applied and therefore is based on a flat earth scenario. Real Time Kinematic accuracies: Horizontal 10mm + 1ppm, Vertical 20mm + 1ppm. Real time accuracies: Horizontal 30mm + 1ppm, Vertical 50mm + 1ppm.

Availability of Statutory Records		
Utility/Service Type	Record Provided	Record Owner
BT	Yes	Overhead
Electricity	Yes	National Grid
Gas	Yes	Cadent
Oil/Fuel	Yes	Anglian Water
Water	Yes	Anglian Water
Other	Yes	Cityfibre



**ABBREVIATIONS**

AV	Air Valve	IBS	Illuminated Road Sign
BB	Beltline Beacon	LP	Lamp Post
BBD	Bottom of Chamber Depth	MH	Manhole
BM	Benchmark	M&M	Marker
BM	Bench Mark	MW	Monitoring Well
BS	Bolt	P	Post
BS	Bus Stop	PS	Post Box
BT	British Telecom Cover	PE	Pole/ethylene
CAB	Cabinet	RE	Rodding Eye
CCTV	Cable Television Cover	RG	Rodding
CCTV	Closed Circuit TV	RS	Road Sign
CL	Cover Level	RT	Road Traffic
CP	Concrete Paving Slabs	SD	Site Level Depth
DK	Double Iron	SP	Sign Post
DK	Dropped kerb	ST	Street
DN	Down Pipe	STN	Survey Station
EJB	Electricity Junction Box	SW	Surface Water
EP	Electricity Pole	T&B	Telephone Call Box
ER	Earth Road	TCD	Top of Chamber Depth
FR	Flower Bed	TL	Traffic Light
FW	Foot Water	TLCB	Traffic Light Control Box
FW	Foot Water Pipe	TS	Tongue Pole
FWP	Foul Water	UL	Unable to Lift
GA	Gas Meter	VC	Vertical Curvature
GP	Gas Pipe	VP	Vertical Pipe
GV	Gas Valve	WD	Water Level Depth
IC	Inspection Cover	WM	Water Meter
ID	Invert Depth	WS	Water Stop Gully
		WV	Water Valve
		WVO	Water Wash Out

**LINE-TYPE KEY**

Electricity	Scan Area
Water	Unable to GPR Area
Gas	Kerb
British Telecom	Fence
Virgin Media	Wall
Frontage	Building
Traffic Control Signalling	Surface Scar
CCTV	Change of Surface
Empty Duct	Building
Earth	Extents of Chamber
Surface Water	GR Detected Anomalous Area
Stop Valve	GR Detected Reinforcing
Foul Water	Area of Obstruction
Combined Sewer	Assumed
Unknown Cable	Statutory Records
Unknown Pipe	
Unknown Cable	
Metallic Target	
Radar Target	
Possible Target	
Assumed	
Statutory Records	

**CLIENT:**

**SITE:**

**PROJECT REF:**

**DRAWN:**

**CHECKED:**

**SCALE:**

**DATE:**

**SHEET NO:**

**REV:**

**PULSEmapping**

PULSE MAPPING LTD  
THE BOTHY, ALBURY PARK  
GUILDFORD, SURREY, GU5 9BH

T: 01483 527 972  
E: pulse@pulse-mapping.com  
W: www.pulse-mapping.com

Metres 1:100